

SYSTEMS AND METHODS FOR ONSITE SORBENT MATERIAL REUSE

ABSTRACT

Methods, sorbent cartridges and cleaning devices are disclosed for refurbishing sorbent materials. In one implementation among multiple implementations, a medical fluid delivery method includes: providing a sorbent cartridge including H⁺ZP within a casing for a treatment; and after the treatment, refurbishing the H⁺ZP while maintained within the casing via (i) regenerating the non-disinfected H⁺ZP by flowing an acid solution through the casing, (ii) rinsing the regenerated H⁺ZP while maintained within the casing, (iii) disinfecting the regenerated and rinsed H⁺ZP by flowing a disinfecting agent through the casing, and (iv) rinsing the regenerated and disinfected H⁺ZP while maintained within the casing. Multiple batch sorbent refurbishing implementations are also disclosed.

[FIG .1]